



503834

SCREENING SITE INSPECTION REPORT

FOR

REN PLASTICS

LANSING, MICHIGAN

U.S. EPA ID: MID005319603

SS ID: NONE

TDD: F05-8901-021

PAN: FMIO220SA

NOVEMBER 13, 1989



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415

International Specialists in the Environment

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SIGNATURE PAGE
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Ren Plastics site under contract number 68-01-7347.

The site was discovered by the Michigan Department of Natural Resources (MDNR) after Ren Plastics reported a spill at the facility to MDNR in July 1980.

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Barbara Grabowski of MDNR's Site Assessment Unit. The PA is dated August 3, 1984.

FIT prepared an SSI work plan for the Ren Plastics site under technical directive document (TDD) F05-8706-519, issued on June 25, 1987. The SSI work plan was approved by U.S. EPA on January 9, 1989. The SSI of the Ren Plastics site was conducted on March 7, 1989, under TDD F05-8901-021, issued on February 3, 1989.

The FIT SSI included an interview with a site representative and a reconnaissance inspection of the site; sampling was not conducted by FIT at the site.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the

most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

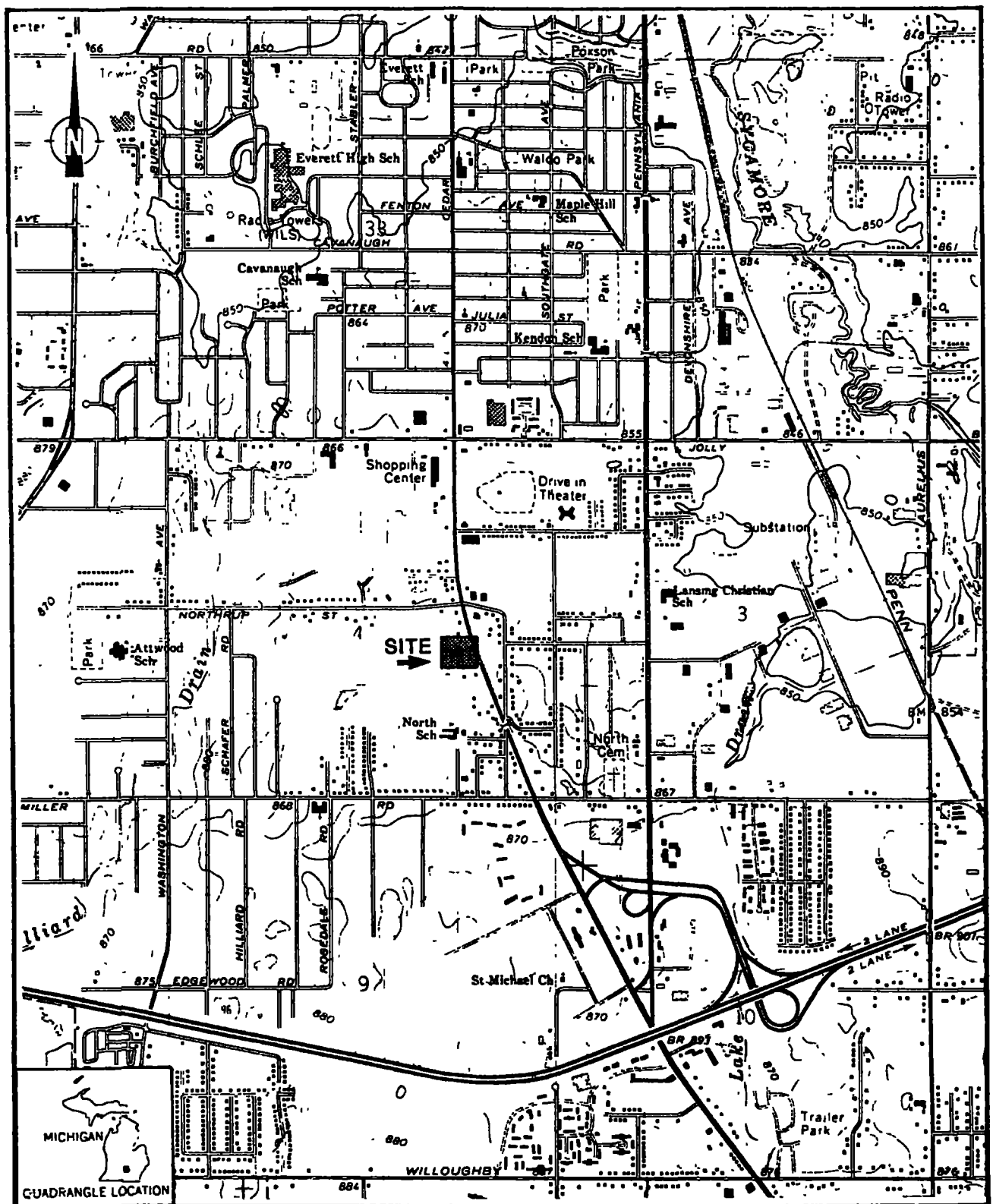
2.2 SITE DESCRIPTION

The Ren Plastics site is an inactive plastics epoxy production plant currently owned and operated by Douglas J. Academy of Cosmetology.

The site is located in a mixed residential and commercial area in the southern portion of Lansing, Michigan, at 5656 South Cedar Street in Ingham County (NW1/4SE1/4 sec. 4, T.3N., R.2W.) (see Figure 2-1). A 4-mile radius map of the Ren Plastics site is provided in Appendix A.

2.3 SITE HISTORY

Ren Plastics operated as a plastic epoxy production plant until the early 1980s. In 1980, Ren Plastics notified MDNR of a minor chemical spill at the site. An inspection, including soil sampling and analysis, conducted by the Ingham County Health Department (ICHD) on November 7, 1983, detected contaminants in soil at the facility (MDNR 1984). High levels of phthalates were detected in soil samples collected by ICHD in the area of a previously used shipping bay (MDNR 1984). Representatives of Ren Plastics admitted in a letter that the high levels of phthalates in the area was the result of past, poor maintenance practices (Whitlock 1983). Ren Plastics retained Keck Consulting Services (KCS) to conduct a hydrogeological study at the site, including the drilling of soil



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Lansing South, MI Quadrangle, 7.5 Minute Series, 1965, Photorevised 1973.



FIGURE 2-1 SITE LOCATION

borings and the installation of monitoring wells. Based on findings of the hydrogeological study, Ren Plastics requested Snell Environmental Group, Inc. (Snell), manage the removal of the contaminated soil at the site (Snell 1986). The depth of soil excavation was directly dependent on soil sample results from the KCS study, conducted on December 2, 1983.

On December 3, 1983, KCS collected samples from soil borings B-1, B-2, B-3, B-4, and B-5 (see Appendix C for analytical results and depths of borings). In addition, three monitoring wells were installed by KCS, but based on information reviewed by FIT, there are no data available regarding any sampling from the wells.

Each soil boring sample was analyzed for the following parameters: total solids, ethylbenzene, isopropyl benzene, and total polychlorinated biphenyls (PCBs). In addition, analysis of the boring samples tentatively identified toluene, o-xylene, m-xylene, p-xylene, and Chlordane. The entire contamination area was excavated to a depth of 2 1/2 feet, while two areas within the excavation area were excavated to 4 feet (see Appendix B). A total of 280 cubic yards of excavated soil was transported from the site as hazardous waste to Wayne Disposal, Inc., of Belleville, Michigan, by R & M Trucking of Ecorse, Michigan. The excavated area was then backfilled with clean soil, as designated by MDNR (Snell 1986).

In June 1986, the site property was bought by the Douglas J. Academy of Cosmetology (Harfs 1989). (The building was remodeled at this time by Bud Nilson Builder of Okemos, Michigan.) Prior to 1986, the property was owned by Renaud Trusts of Lansing, Michigan. During the active period of operation by Ren Plastics, Ciba-Geigy, the parent company of Ren Plastics, leased the property from Renaud Trusts.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Ren Plastics site. Individual subsections address the site representative interview and reconnaissance inspection. The SSI was not conducted in accordance with the U.S. EPA-approved work plan. The work plan had called for the collection of samples; however, because of site conditions (the area of concern at the site had been paved over) no samples were collected.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Ren Plastics site is provided in Appendix D.

3.2 SITE REPRESENTATIVE INTERVIEW

David Wagner, FIT team leader, and David Klatt, also of FIT, conducted an interview with David Harfs, Manager of Douglas J. Academy of Cosmetology. The interview was conducted on March 7, 1989, at 2:00 p.m. in Harfs' on-site office. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Ren Plastics site on March 7, 1989, beginning at 3:00 p.m., in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection included a walk-through of the site to make observations to aid in

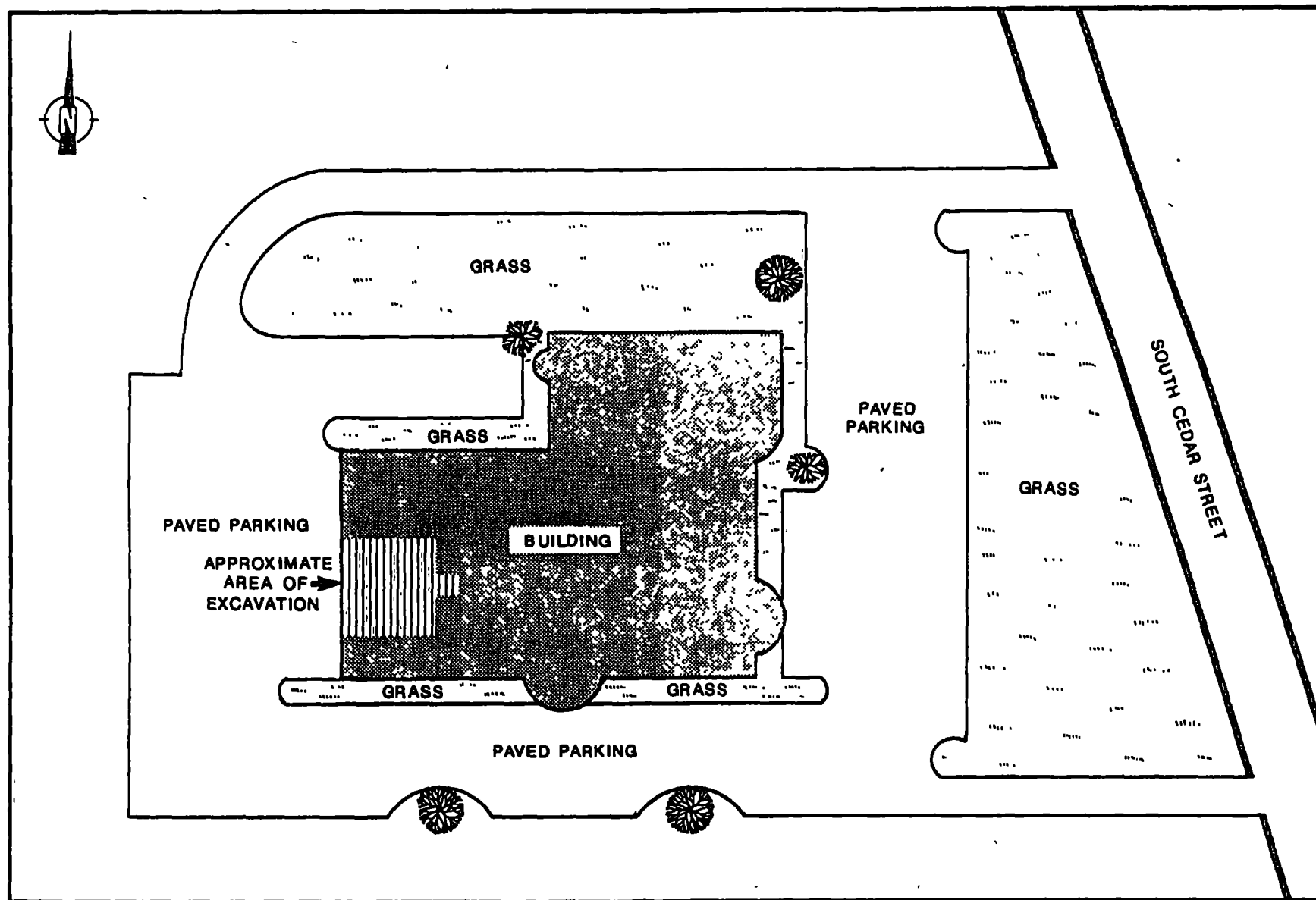
characterizing the site. FIT was not accompanied by any site representatives during the reconnaissance inspection or the SSI.

Reconnaissance Inspection Observations. The Ren Plastics site is bordered to the east by South Cedar Road. Commercial operations are located to the north, east, and west of the site. The area in the vicinity of the site is interspersed with industrial and residential areas.

One large building is located on-site; the building was used as a manufacturing building by Ren Plastics. The building is currently occupied by Douglas J. Academy of Cosmetology. The building is surrounded by paved parking areas and grass (see Figure 3-1). The previously used shipping bay was observed by FIT to be enclosed as a result of a renovation to the wall of the building.

No security systems or guards were observed by FIT during the reconnaissance inspection.

Photographs of the Ren Plastics site are provided in Appendix E.



SOURCE: Ecology and Environment, Inc. 1989.



FIGURE 3-1 SITE FEATURES

4. DISCUSSION OF MIGRATION PATHWAYS

4.1 INTRODUCTION

This section presents discussions of data and information that apply to potential migration pathways and targets of Target Compound List (TCL) compounds and Target Analyte List (TAL) analytes that are possibly attributable to the Ren Plastics site.

The five migration pathways of concern discussed are: groundwater, surface water, air, fire and explosion, and direct contact.

4.2 GROUNDWATER

A potential exists for TCL compounds to migrate from the site via groundwater based on the following information.

- TCL compounds, including ethylbenzene (4.1 µg/kg), isopropyl benzene (88.2 µg/kg), and total PCBs (2.9 µg/kg), were detected in on-site KCS-collected soil borings at various depths. These organic substances are not naturally occurring soil constituents and appear to be representative of the waste at the Ren Plastics site.
- The local geology of the area consists of Capac-Colwood soils overlying glacial drift, approximately 30 feet thick (see well logs provided in Appendix F), overlying sandstone and shale bedrock of the Saginaw Formation. Capac-Colwood soils drain poorly and are found in low permeability soils developed on till plains and moraines of 0 to 4% slope

(U.S. Department of Agriculture 1977). The Saginaw Formation consists mainly of alternating and intertonguing stream and river channel sands, river floodplain silts and clays, shallow water marine or tidal swamp shales and limestones, and swamp-laid coals. The sandstones of the Saginaw Formation are often encountered as discontinuous lenses of highly variable thickness (Dorr and Eschman 1970).

- According to well logs in the vicinity of the site (see Appendix F), the aquifer of concern is encountered at approximately 70 feet below the ground surface. The aquifer of concern is situated in the sandstone bedrock of the Saginaw Formation.

The target population potentially affected by groundwater contamination within a 3-mile radius of the Ren Plastics site is approximately 131,546 persons. This population includes all persons using municipal water supplies from the city of Lansing and the town of Holt. The town of Holt has a population of 10,057 persons (U.S. Bureau of the Census 1982). Several of the city of Lansing's municipal wells are located within a 3-mile radius of the site. The water from these wells is blended with water from other municipal wells in Lansing; therefore, the entire population obtaining municipal water from Lansing was included (Adsit 1988).

According to well logs of the area of the site, the nearest drinking water well is approximately 1,000 feet southwest of the site.

4.3 SURFACE WATER

Sycamore Creek, which flows from north to south, is located approximately 1 mile east of the site. The past potential for contaminants to have migrated from the site to Sycamore Creek is based on the following information:

- Several TCL compounds were detected in KCS-collected soil samples;

- Sycamore Creek is located downgrade (approximately 0.4%) from the site; and
- There are no surface water diversion structures present at the site; however, storm sewers observed on-site should minimize the threat of contaminants reaching surface water bodies in the area of the site.

Sycamore Creek is not used as a source of drinking water, but it is used for recreational purposes, including fishing (Adsit 1988). Because surface water in the vicinity of the site is not used as a source of drinking water, no target population affected by surface water contamination was calculated.

4.4 AIR

A release of potential contaminants to the air was not documented during the SSI of the Ren Plastics site. In accordance with the U.S. EPA-approved work plan, air monitoring was not conducted by FIT.

4.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with the site representative, no documentation exists of any incidents of fire or explosion at the Ren Plastics site.

4.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, and an interview with the site representative, no documentation exists of an incident of direct contact with TCL compounds detected at the Ren Plastics site. However, a potential for direct contact exists, based on the following information:

- The perimeter of the site is unfenced; the site is accessible; and

- o TCL compounds were detected in KCS-collected on-site soil samples (see Appendix C).

The target population potentially affected by direct contact is approximately 5,430 persons within a 1-mile radius of the site. This population includes only a portion of the total population of Lansing because only a section of Lansing is located within a 1-mile radius of the site.

5. BIBLIOGRAPHY

Adsit, G., August 22, 1988, Lansing Board of Water and Light, telephone conversation, regarding groundwater and surface water use, contacted by David Wagner of E & E.

Dorr, J. A. and D. F. Eschman, 1970, Geology of Michigan, University of Michigan Press, Ann Arbor, Michigan.

Harfs, David, March 7, 1989, Manager, Douglas J. Academy of Cosmetology, interview, conducted by David Wagner of E & E.

MDNR, August 3, 1984, Executive Summary/Preliminary Assessment, for the Ren Plastics site, U.S. EPA ID: MID005319603.

Snell, February 1986, Contaminated Soil Removal from the Former Ren Plastics, Inc., South Cedar Facility.

U.S. Bureau of the Census, 1982, 1980 General Population Characteristics, Michigan.

U.S. Department of Agriculture, 1977, Soil Conservation Service, Soil Survey of Ingham County, Michigan.

U.S. EPA, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

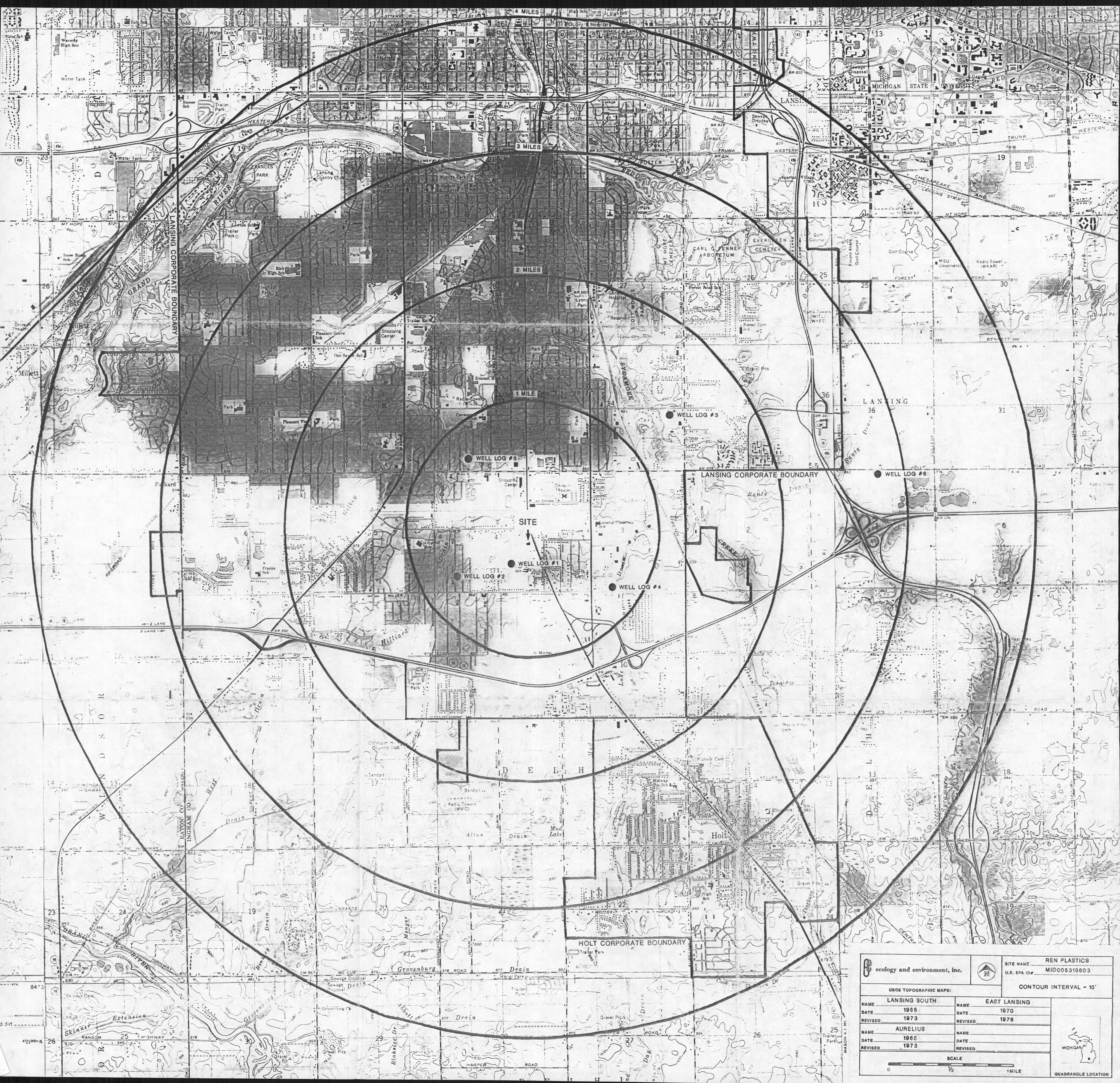
Whitlock, William J., October 11, 1983. law offices of Landman,
Luyendyk, Latimer, Clink and Robb, letter, to U.S. EPA Region V.

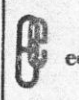
3607:rw

1. The first part of the document is a list of names and addresses, which are arranged in two columns. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list appears to be a directory or a roster of some kind.


APPENDIX A

SITE 4-MILE RADIUS MAP





ecology and environment, inc.




SITE NAME REN PLASTICS
U.S. EPA ID# MID005319603

USGS TOPOGRAPHIC MAPS:


NAME LANSING SOUTH	NAME EAST LANSING
DATE 1965	DATE 1970
REVISED 1973	REVISED 1976

NAME AURELIUS	NAME
DATE 1965	DATE
REVISED 1973	REVISED

CONTOUR INTERVAL - 10'



SCALE
0 1/2 1 MILE

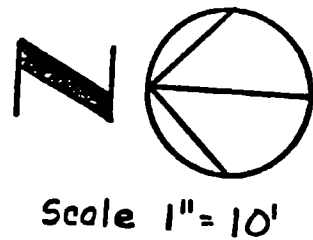
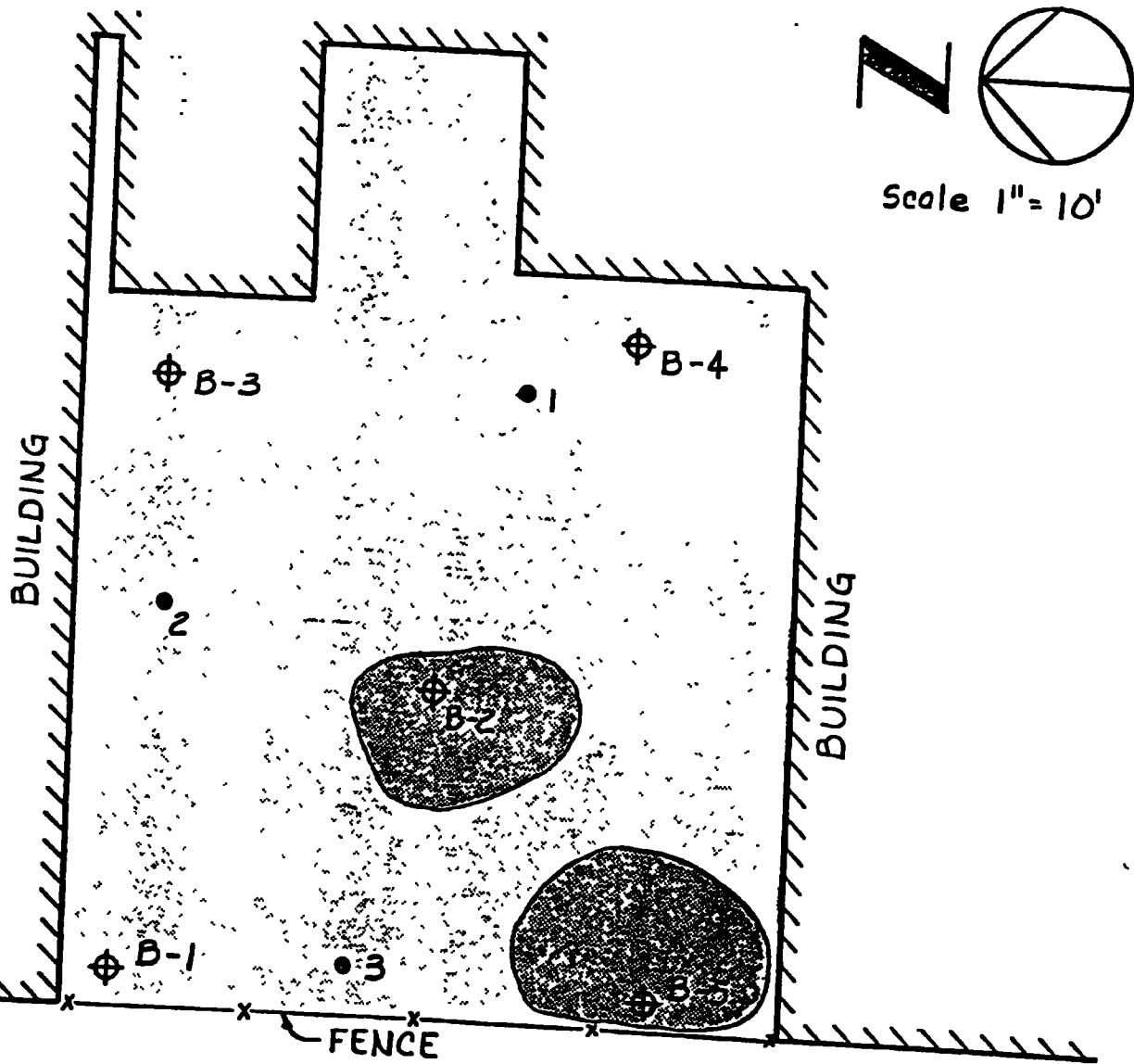


QUADRANGLE LOCATION

B

APPENDIX B

LOCATIONS OF KCS-CONDUCTED SOIL BORINGS



- MONITOR WELLS
- ⊕ SOIL BORING
- LIGHT SHADED AREA EXCAVATE TO 2.5'
- DARK SHADED AREAS EXCAVATE TO 4.0'

FIGURE 1
REN/CIBA GEIGY
PLASTICS
SOUTH CEDAR
SOIL BORING AND
EXCAVATION PLAN

C

APPENDIX C

ANALYTICAL RESULTS OF KCS-COLLECTED
SOIL BORING SAMPLES AND DEPTHS OF BORINGS

December 14, 1983

Ren Plastics Company
4917 Dawn Avenue
East Lansing, MI 48823

Attn: Mr. Michael Munsell

Analytical results for soil samples collected from the Cedar Street site for Ren Plastics in Lansing, Michigan on December 2, 1983.

PO#: Verbal

SEG Number:	40572	40573	40574	40575	40576
Tag:	B-2 1'-2'	B-1 2'-3'	B-1 4'-5'	B-3 2'-3'	B-3 4'-5'
Total Solids %	84	90	90	90	90
Ethylbenzene ug/kg	4.1 ¹	LT 1.2	LT 1.2	1.3	LT 1.2
Isopropyl Benzene ug/kg	88.2 ¹	LT 1.1	LT 1.2	LT 1.3	LT 1.2
Total PCB's mg/kg	2.9 ²	LT 1.0	LT 0.19	LT 0.71	LT 1.1 ³

LT = Less Than

¹In addition to these volatile aromatic compounds this sample contained Toluene, o-xylene, m-xylene, p-xylene at a concentration of between 10 and 100 ug/kg. This sample also contained several unidentified peaks representing concentrations of between 10 and 1000 ug/kg.

²Sample contains chlordane at a concentration of about 8 mg/kg

³Sample contains chlordane at a concentration of about 4 mg/kg

NOTE: All calculations on dry weight basis (except Total Solids)

Ren Plastics Company
Analytical Results cont'd
Attn: Mr. Michael Munsell
December 14, 1983
page 2 of 2

SEG Number:	40577	40578	40579	40580
Tag:	B-4 3'-2'	B-4 5'-4.5'	B-5 2'-2.5'	B-5 4.5'-5.0'
Total Solids %	84	85	89	89
Ethylbenzene ug/kg	LT 1.3	LT 1.2	LT 1.3 ¹	LT 1.2
Isopropyl Benzene ug/kg	LT 1.3	LT 1.3	7.0 ¹	LT 1.2
Total PCB's mg/kg	LT 0.20	LT 0.19	LT 0.19	LT 0.19 ⁴

LT = Less Than

¹In addition to these volatile aromatic compounds this sample contained Toluene, o-xylene, m-xylene, p-xylene at a concentration of between 10 and 100 ug/kg. This sample also contained several unidentified peaks representing concentrations of between 10 and 1000 ug/kg.

⁴Sample contains chlordane at a concentration of about 1 mg/kg.

NOTE: All calculations on dry weight basis (except Total Solids)

Approved by



APPENDIX D
U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MI	D005319603

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Ren Plastics		5656 S. Cedar Street				
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lansing		MI	48910	Ingham	65	3
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)				
LATITUDE 42 40 33.0		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN				
LONGITUDE 084 32 50.0						

III. INSPECTION INFORMATION

01 DATE OF INSPECTION		02 SITE STATUS	03 YEARS OF OPERATION	
03/07/89 MONTH DAY YEAR		<input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	BEGINNING YEAR _____ ENDING YEAR _____ <input checked="" type="checkbox"/> UNKNOWN	
04 AGENCY PERFORMING INSPECTION (Check all that apply)				
<input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR Ecology and Environment Inc. <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR _____ <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR _____ <input type="checkbox"/> G. OTHER _____ (Name of firm) (Specify)				

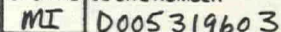
05 CHIEF INSPECTOR		06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
David Wagner		Limnologist	E & E	(312) 663-9415
09 OTHER INSPECTORS		10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
David Klatt		Environmental Specialist	E & E	(312) 663-9415
				()
				()
				()
				()

13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE	15 ADDRESS	16 TELEPHONE NO.
David Harfs		Douglas J Academy of Cosmetology	5656 S. Cedar Lansing, MI	(517) 393-2100
				()
				()
				()
				()
				()

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
<input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	1400	Sunny, ~35°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NO.
Dan Cummins		MDNR - Region III - Dimondale		(517) 322-1300
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.
David Wagner		U.S. EPA	E & E	(312) 663-9415
				08 DATE
				05/01/89 MONTH DAY YEAR



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

EPA FORM 2070-13(7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 131,546 04 NARRATIVE DESCRIPTION
See Sections 2.3 and 5.2 of report.

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
See Section 5.3 of report.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
See Section 5.4 of report.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
See Section 5.5 of report.

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
See Section 5.6 of report.

01 ☐ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE 9/16/83) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED <1.0 04 NARRATIVE DESCRIPTION
(Acres)
See Section 5.2 of report

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 131,546 04 NARRATIVE DESCRIPTION
See Sections 2.3 and 5.2 of report.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED ~200 04 NARRATIVE DESCRIPTION
Workers and students at the site could potentially become exposed to hazardous substances on-site.

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 89430 04 NARRATIVE DESCRIPTION
The site property is not fenced and residents could potentially become exposed/injured on the site or off-site through contaminant migration.
See Section 5.6 of report.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

Damage to local flora could potentially occur through contact with potentially contaminated soil, air, and/or water resources.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

Damage to local fauna could potentially occur through contact with potentially contaminated soils.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

Contaminants could potentially bioaccumulate throughout the local food chain.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoff/Standing liquids, Leaking drums)

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 89,430 04 NARRATIVE DESCRIPTION

See Sections 2.3, 5.2, 5.3, and 5.6 of report.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

See Section 5.6 of report.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP, ~~OR OBSERVED~~ (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION Damage to on-site sewers/storm drains could potentially occur during runoff periods.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☐ POTENTIAL ☐ ALLEGED

See Section 2.3 of report

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 131,546

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references, e.g. State files, sample analysis, records)

State and FIT files Chicago, IL
SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	(one)
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND	NONE		<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	~4.0 (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)			NONE	

07 COMMENTS Ren Plastics was a plastic epoxy production plant. Poor housekeeping practices resulted in contaminated soils at the facility. MDNR cleaned up the site in 1984. Presently the Douglas J Academy of Cosmetology operates at the site in a remodeled building.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

N/A

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

See Section 5.6 of report

VI. SOURCES OF INFORMATION (No specific references, e.g. state files, sample analysis reports)

State and FIT files Chicago, IL
SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all applicable)			02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A	
COMMUNITY	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input checked="" type="checkbox"/>		0.2 (mi)
NON-COMMUNITY	C <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>	B	0.7 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL INDUSTRIAL IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL INDUSTRIAL IRRIGATION
(Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>131,546</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>0.25</u> (mi)	
04 DEPTH TO GROUNDWATER <u>9</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>unknown</u>	06 DEPTH TO AQUIFER OF CONCERN <u>70</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>unknown</u> (gpd)
08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See Section 5.2 of report.

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS Groundwater is probably recharged by rainwater.

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS May discharge into Sycamore Creek.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE

☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES

☐ C. COMMERCIAL INDUSTRIAL

☐ D. NOT CURRENTLY USED

02 AFFECTED, POTENTIALLY AFFECTED BODIES OF WATER

NAME:

Sycamore Creek

AFFECTED

DISTANCE TO SITE

☐

☐

☐

1.2 (mi)

(mi)

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. 5430
NO OF PERSONS

TWO (2) MILES OF SITE

B. 25,430
NO OF PERSONS

THREE (3) MILES OF SITE

C. 54,430
NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

9524

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site - e.g. rural, village, or very populated urban area)

The population in the vicinity of the site is relatively urban, especially to the North and West. The site is located at the southern portion of the city of Lansing limits.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-5}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-6} - 10^{-8}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

58 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

2.75 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.15 (in)

08 SLOPE

SITE SLOPE

4.0 %

DIRECTION OF SITE SLOPE

unknown

TERRAIN AVERAGE SLOPE

~5.7 %

09 FLOOD POTENTIAL

SITE IS IN unknown YEAR FLOODPLAIN

10

N/A

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. N/A (mi)

OTHER

B. ~2.0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>4.0 (mi)

ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0 (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 0.1 (mi)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. unknown (mi) D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See Appendix A of report

VII. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

State and FIT files Chicago, IL

SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		NO SAMPLES COLLECTED	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	No field measurements taken

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Ecology and Environment, Inc.</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Ecology and Environment, Inc. Chicago, IL</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description.)

None

VI. SOURCES OF INFORMATION (Cite specific references of site visit sample and test reports)

SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI 0005319603

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Douglas J Academy of Cosmetology		02 D+B NUMBER		08 NAME N/A		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.) 5656 S. Cedar St		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)		11 SIC CODE	
05 CITY Lansing		06 STATE MI	07 ZIP CODE 48910	12 CITY		13 STATE	14 ZIP CODE
01 NAME N/A		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (last most recent first)				IV. REALTY OWNER(S) (if applicable, last most recent first)			
01 NAME Ciba-Geigy		02 D+B NUMBER		01 NAME N/A		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.) Unknown		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE	
05 CITY Ardsley		06 STATE NY	07 ZIP CODE 10502	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (cite specific references e.g. state files, sample analysis reports)							
State and FIT files Chicago, IL							
SSI conducted 3/7/89							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME Douglas J Academy of Cosmetology		02 D+B NUMBER		10 NAME N/A		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5656 S. Cedar St.		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Lansing		06 STATE MI	07 ZIP CODE 48910	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION ~2		09 NAME OF OWNER Unknown					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME Ren Plastics		02 D+B NUMBER		10 NAME Ciba-Geigy		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5656 S. Cedar St.		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.) Unknown		13 SIC CODE	
05 CITY Lansing		06 STATE MI	07 ZIP CODE 48910	14 CITY Ardsley		15 STATE NY	16 ZIP CODE 10502
08 YEARS OF OPERATION Unknown		09 NAME OF OWNER DURING THIS PERIOD Ciba-Geigy Corp.					
01 NAME Unknown		02 D+B NUMBER		10 NAME Unknown		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME Unknown		02 D+B NUMBER		10 NAME Unknown		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME Unknown		02 D+B NUMBER		10 NAME Unknown		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)							
State and FIT files Chicago, IL SSI conducted 3/7/89							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. ON-SITE GENERATOR

01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

State and FIT files Chicago, IL
SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☒ E. CONTAMINATED SOIL REMOVED

02 DATE 7/7/85

03 AGENCY MDNR

04 DESCRIPTION MDNR and Ren Plastics agreed on the soil removal, managed by Snell Environmental. Granger, Excavating Co. removed the soil, concrete slab and fence. The soil was replaced along with the concrete slab and fence.

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES SUMP
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D005319603

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

III. SOURCES OF INFORMATION (Cite specific references e.g., 11420 files, sample analysis reports)

State and FIT files Chicago, IL
SSI conducted 3/7/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MI	D005319603

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

See Section 2.3 of report

III. SOURCES OF INFORMATION (See specific references e.g. state files, sample analysis reports)

State and FIT files Chicago, IL
SSI conducted 3/7/89

APPENDIX E

FIT SITE PHOTOGRAPHS

SITE NAME: Ren Plastics

PAGE 1 OF 5

U.S. EPA ID: MID005319603 TDD: F05-8901-021PAN: FM10220SADATE: > 3/7/89TIME: > 1430DIRECTION OF
PHOTOGRAPH:> WWEATHER
CONDITIONS:> Sunny> 35°F

PHOTOGRAPHED BY:

> D. WagnerSAMPLE ID
(if applicable):> N/ADESCRIPTION: > View of the front of the building.

>

DATE: > 3/7/89TIME: > 1430DIRECTION OF
PHOTOGRAPH:> SWEATHER
CONDITIONS:> Sunny> 35°F

PHOTOGRAPHED BY:

> D. WagnerSAMPLE ID
(if applicable):> N/ADESCRIPTION: > View of new sign showing new ownership.

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Ren PlasticsPAGE 2 OF 5U.S. EPA ID: MID005319603 TDO: F05-8901-021PAN: FM102205ADATE: > 3/7/89TIME: > 1430DIRECTION OF
PHOTOGRAPH:> SWWEATHER
CONDITIONS:> Sunny> 35°F

PHOTOGRAPHED BY:

> D. WagnerSAMPLE ID
(if applicable):> N/ADESCRIPTION: > Southeast corner of buildingDATE: > 3/7/89TIME: > 1445DIRECTION OF
PHOTOGRAPH:> EWEATHER
CONDITIONS:> Sunny> 35°F

PHOTOGRAPHED BY:

> D. WagnerSAMPLE ID
(if applicable):> N/ADESCRIPTION: > South side of building

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Ren Plastics

PAGE 3 OF 5

U.S. EPA ID: MID005319603 TDD: F05-8901-021

PAN: FMI02205A

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF PHOTOGRAPH:

> E

WEATHER CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID (if applicable):

> N/A



DESCRIPTION: > West side of the building.

>

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF PHOTOGRAPH:

> SE

WEATHER CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID (if applicable):

> N/A



DESCRIPTION: > Southwest corner of building

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Ren Plastics

PAGE 4 OF 5

U.S. EPA ID: MED005319603 TDO: F05-8901-021

PAN: FM102205A

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF
PHOTOGRAPH:

> NE

WEATHER
CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID
(if applicable):

> N/A



DESCRIPTION: > Northwest corner of the building.

>

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF
PHOTOGRAPH:

> E

WEATHER
CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID
(if applicable):

> N/A



DESCRIPTION: > North side of the building

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Ren Plastics

PAGE 5 OF 5

U.S. EPA ID: WID005319603 TDO: F05-8901-021

PAN: FMI0220SA

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF
PHOTOGRAPH:

> E

WEATHER
CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID
(if applicable):

> N/A



DESCRIPTION: > View of west side of the building

>

DATE: > 3/7/89

TIME: > 1445

DIRECTION OF
PHOTOGRAPH:

> SE

WEATHER
CONDITIONS:

> Sunny

> 35°F

PHOTOGRAPHED BY:

> D. Wagner

SAMPLE ID
(if applicable):

> N/A



DESCRIPTION: > Northeast corner of the building.

>

APPENDIX F

WELL LOGS OF THE AREA OF THE SITE

1 LOCATION OF WELL		2		3		4		5		6	
County	Twp.	Fraction	Section No	Town	Range	Distance And Direction from Road Intersections		OWNER OF WELL		3	
Ingham	Delhi	NW 1/4 SW 1/4 SE 1/4	4	3N	2N	5909 Coulson Ct. Lansing, Michigan		Board of Water and Light 123 W. Ottawa St. Lansing, Michigan 48903		3	
Street address & City of Well Location						OWNER No.		Address		3	
2 FORMATION						THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		4 WELL DEPTH (completed) Date of Completion	
Top Soil						5'		5'		335 ft 4/17/72	
Clay (sandy)						5		10		5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
Sand						5		15		6 USE: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>	
Clay (gray, some pea stone gravel)						25		40		7 CASING Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Height: Above <u>100</u> surface <u>1.0</u> ft. 14 in. to 67.0 ft. Depth Weight <u>54.57</u> lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Gravel (cemented, gray)						15		55		8 SCREEN: Type: <u>N/A</u> Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____	
Shale (some gravel)						7		62		9 STATIC WATER LEVEL <u>210</u> ft. below land surface	
Sandstone (medium, gray)						8		70		10 PUMPING LEVEL below land surface <u>84.2</u> ft. after <u>6</u> hrs. pumping <u>800</u> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.	
" (fine, ")						30		100		11 WATER QUALITY in Parts Per Million: Iron (Fe) <u>0.54</u> Chlorides (Cl) <u>11.0</u> Hardness <u>320</u>	
" (medium, " , clean)						35		135		12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade	
" (coarse, ")						20		155		13 GROUTING Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From _____ ft. to _____ ft.	
" (" , with shale strips)						5		160		14 SANITARY: Nearest Source of possible contamination <u>112</u> feet <u>W</u> Direction <u>San. Sewer</u> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Shale (gray)						5		165		15 PUMP: Manufacturer's Name <u>Johnston Pump Co.</u> Model Number <u>10ACII</u> HP <u>50</u> Length of Drop Pipe <u>275.58</u> capacity <u>350</u> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	
" (with sandstone strips)						5		170		16 Remarks, elevation, source of data, etc. Well Designation -- <u>80-08</u> Ground Elevation -- <u>872</u> *ADDITIONAL	
Sandstone (medium, with shale strips)						50		220		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Lansing Board of Water & Light <u>0729</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>123 W. Ottawa St. Lansing</u> Signed <u>[Signature]</u> Date <u>5/24/72</u> AUTHORIZED REPRESENTATIVE	
" (coarse, " " ")						5		225			
" (medium, " " ")						15		240			
" & Shale Strips						5		245			
Shale (with sandstone strips)						10		255			
Sandstone (medium, with shale strips)						5		260			
" (coarse, " " ")						60		320			
Shale (black)						15		335			

JUL 24 1972

WATER WELL RECORD

ACT 294

PA 1985

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

2

1 LOCATION OF WELL

County Ingham	Twp. Delhi	Fraction SE 1/4 SW 1/4	Section No. 4	Town 3N N/S.	Range 2N E/W.
-------------------------	----------------------	----------------------------------	-------------------------	------------------------	-------------------------

Distance And Direction from Road Intersections

**6036 Schafer Rd.
Lansing, Michigan**

Street address & City of Well Location

OWNER No. _____

3 OWNER OF WELL.

**Board of Water and Light
Address 123 W. Ottawa St.
Lansing, Michigan 48903**

2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Top Soil

5'

5'

Fill Dirt

10

15

Clay (with gravel)

5

20

Sand (brown, fine to medium)

13

33

Gravel (coarse, cemented)

5

38

Shale (gray, some gravel)

28

66

Sandstone (coarse to fine, gray)

74

140

" (medium to fine, shale strips)

15

155

" (fine to coarse, gray)

20

175

" (coarse, shale strip)

5

180

Shale (dark gray, sandstone strips)

20

200

Sandstone (fine to coarse, shale strips)

20

220

Limestone (brown, coarse drillings)

2

222

Sandstone (very coarse, gray)

28

250

Shale (gray)

15

265

Sandstone (very coarse, some gravel & shale)

45

310

Shale (gray to black)

35

345

Sandstone (medium, gray, shale strips)

10

355

" (fine, gray, hard)

10

365

" (" , shale strips)

5

370

Shale (green)

1

371

16 Remarks, elevation, source of data, etc.

Well Designation -- **80-06**
Ground Elevation -- **680'**

RECORDED BY DW LLLR, 12/24/72

CORRECTED BY J.

4 WELL DEPTH. (completed) Date of Completion

371 ft. 4/18/72

5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☐ Domestic ☒ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☐ Welded ☒
Diam. 14 in. to 74.12 ft. Depth
Height: Above/Low surface 1 ft.
Weight 54.57 lbs./ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN.

Type: N/A Dia.: _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

Fittings: _____

9 STATIC WATER LEVEL

30 ft. below land surface

10 PUMPING LEVEL below land surface

118 ft. after 5.4 hrs. pumping 510 g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) 0.60 Chlorides (Cl) 3.0

Hardness 316

12 WELL HEAD COMPLETION

☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☒ NoMaterial: ☐ Neat Cement ☐

Depth: From _____ ft. to _____ ft.

14 SANITARY.

Nearest Source of possible contamination

100 feet E Direction San. Sewer Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name Johnston Pump Co.

Model Number 10ACII HP 50

Length of Drop Pipe 277.5 ft. capacity 350 G.P.M.

Type: ☒ Submersible ☐☐ Jet ☐ Reciprocating

17 WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true
to the best of my knowledge and belief.

Lansing Board of Water & Light 0729

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 123 W. Ottawa St. Lansing

Signed *[Signature]* Date 5/24/72

AUTHORIZED REPRESENTATIVE

WATER WELL RECORD ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

3

1 LOCATION OF WELL

County INGHAM	Twp. LANSG	Fraction NE 1/4 NE 1/4 SE 1/4	Section No. 34	Town 4N	N/S. N/S.	Range 2N	E/W. E/W.
Distance And Direction from Road Intersections 738' W. of Aurelius Rd. on Cavanaugh Rd.; 125' S of Cavanaugh Rd.		OWNER No. _____		3 OWNER OF WELL: BOARD OF WATER AND LIGHT Address 123 W. OTTAWA ST. LANSING, MI 48903			
Street address & City of Well Location 1820 E. Cavanaugh Rd., Lansing							

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Top Soil	2'	2'
Sand (brown, medium to coarse)	13	15
Clay (brown, sandy)	5	20
Sand & Gravel	5	25
Clay (gray)	5	30
Sand & Gravel	15	45
Clay (gray, w/gravel)	25	70
Sandstone (medium to fine)	20	90
" (coarse)	5	95
" (fine)	30	125
" (medium)	5	130
" (shale strips)	10	140
" (coarse)	10	150
" (medium, w/shale)	5	155
" (fine)	45	200
" (coarse to medium)	10	210
" (medium to coarse, coal strips & oil)	30	240
" (medium)	25	265
" (medium, coal strips)	10	275
" (coarse to medium)	70	345
Shale (gray)	32-	377-

4 WELL DEPTH. (completed) 377 ft.	Date of Completion 7-18-75
5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
6 USE: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>	
7 CASING: Diam. 14 in. to 77 ft. Depth Threaded <input checked="" type="checkbox"/> Welded <input checked="" type="checkbox"/> Height: Above/Below surface 1.0 ft. Weight 54.57 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8 SCREEN. Type: N/A Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____	
9 STATIC WATER LEVEL 33 ft. below land surface	
10 PUMPING LEVEL below land surface 142.9 ft. after 6.5 hrs. pumping 638 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.	
11 WATER QUALITY in Parts Per Million: Iron (Fe) 3.35 Chlorides (Cl) 0 Hardness 330	
12 WELL HEAD COMPLETION. <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade	
13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From _____ ft. to _____ ft.	
14 SANITARY: Nearest Source of possible contamination 125 feet N storm sewer Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
15 PUMP: Manufacturer's Name SINGER LAYNE & BOWLER Model Number RKLC HP 40 Length of Drop Pip 273.58' capacity 350 G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	

16 Remarks, elevation, source of data, etc.

WELL DESIGNATION - 70-04
GROUND ELEVATION - 860'

ADDED INFO BY DRILLER ITEM NO.

*CORRECTED BY

*MODIFIED BY

ELEVATION

DATE TO EX-

17 WATER WELL CONTRACTOR'S CERTIFICATION.

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LANSING BOARD OF WATER & LIGHT

REGISTERED BUSINESS NAME

0729

REGISTRATION NO.

Address **123 W. OTTAWA ST. LANSING**

Signed **W. L. Lickback**

AUTHORIZED REPRESENTATIVE

Date **7/2/75**

WATER WELL AND PUMP RECORD

PART 127 ACT 368 P.A. 1978

PERMIT NUMBER

4

1 LOCATION OF WELL			2 TOWNSHIP NAME			3 FRACTION			4 SECTION NUMBER			5 TOWN NUMBER			6 RANGE NUMBER		
County Ingham			Township Name Delhi			SE 1/4 SE 1/4 SW 1/4			3			3 NXX			2 XXV		
Distance and Section From Road Intersection																	
1303 East Miller Road (rear) Lansing, Michigan																	
Street Address & City of Well Location																	
Locate within Section Below																	
Sketch Map																	
2 OWNER OF WELL																	
Board of Water and Light Address 123 W. Ottawa Street Lansing, Michigan 48901																	
Address Same As Well Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																	
4 WELL DEPTH (completed) 360 ft Date of Completion 02-04-83																	
5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>																	
6 USE <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>																	
7 CASING Diameter <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Plastic Height: Above/Below Surface 2 ft 14 in to 70.65 ft depth Weight 54.57 lbs/ft Grouted Drill Hole Diameter _____ ft depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A ft depth																	
8 SCREEN <input type="checkbox"/> Not Installed Type N/A Diameter _____ Slot/Gauge _____ Length _____ Set between _____ ft and _____ ft FITTINGS <input type="checkbox"/> K Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft Other _____																	
9 STATIC WATER LEVEL _____ ft below land surface <input type="checkbox"/> Flow																	
10 PUMPING LEVEL below land surface 69 ft after 5.58 hrs pumping at 715 GPM _____ ft after _____ hrs pumping at _____ GPM																	
11 WELL HEAD COMPLETION <input type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit																	
12 WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From 0 to 70 ft <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Add. ves _____																	
13 Nearest source of possible contamination Type Open Ditch Distance 132 ft Direction West Drain Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	
14 PUMP <input type="checkbox"/> Not Installed <input checked="" type="checkbox"/> Pump Installation Only Manufacturer's name Layne and Bowler Model number RKLC HP 40 Volts 480 Length of Drop Pipe 300 ft capacity 350 GPM TYPE <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK Manufacturer's name N/A Model number _____ Capacity _____ Gals																	
15 REMARKS																	
<div style="text-align: center;"> <p>RECEIVED</p> <p>Mich. Dept. of Public Health</p> <p>MAR 8 1983</p> <p>Environmental and USE A 2ND SHEET IF NEEDED Services Administration</p> <p>ADDED INFO BY DRILLER, ITEM NO.</p> <p>CORRECTED BY</p> <p>ADDITION BY</p> <p>ELEVATION</p> <p>DEPTH IN ROCK</p> </div>																	
16 WATER WELL CONTRACTOR'S CERTIFICATION																	
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief																	
Lansing Board of Water and Light 0729 REGISTERED BUSINESS NAME REGISTRATION NO																	
Address 123 W. Ottawa, Lansing, MI 48901																	
Signed <i>[Signature]</i> Date 2/16/83 AUTHORIZED REPRESENTATIVE																	

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

5

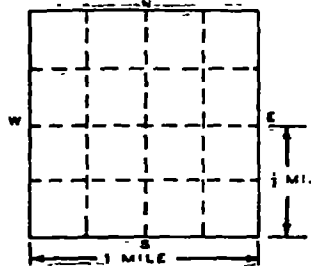
1 LOCATION OF WELL

County Ingham Township Name Delhi Township Fraction SE 1/4 SW 1/4 Section Number 3.3 Town Number 4 N.S. Range Number 2 E

Distance and Direction from Road Intersections
2 Blk South North
of Valley Rd. West Side
Street address & City of Well Location 5212 Hughes Lane

Locate with "X" in section below

Sketch Map



2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Clay	45	45
Sand	10	55
Clay	25	80
Shale	40	120
Rock	30	150

3 OWNER OF WELL:

Address

F.H.A. #263-055287
Grand Rapids, Mich

4 WELL DEPTH: (completed) Date of Completion

150 ft. 10-20-71

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☒ Welded ☐ Height: Above/Below

Diam.

4 in. to 80 ft. Depth Surface 11 ft.

4 in. to 80 ft. Depth Weight 11 lbs./ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN

Type: Rock Dia. 4 in.

Slot/Gauze 1/2 in. Length 10 ft.

Set between 4 ft. and 10 ft.

Fittings: 1

9 STATIC WATER LEVEL

40 ft. below land surface

10 PUMPING LEVEL below land surface

40 ft. after 1/2 hrs. pumping 30 g.p.m.

40 ft. after 1/2 hrs. pumping 30 g.p.m.

40 ft. after 1/2 hrs. pumping 30 g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) 0 Chlorides (Cl) 0

Hardness 0 Other 0

12 WELL HEAD COMPLETION: ☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☐ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐

Depth. From 4 ft. to 10 ft.

14 Nearest Source of possible contamination

50 feet W Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Not installed

Manufacturer's Name McDonald

Model Number 12 HP 220 Volts

Length of Drop Pipe 123 ft. capacity 10 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION.

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lenon Well Drill 0050

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1000

Signed Lenon Date 10-21-71

AUTHORIZED REPRESENTATIVE